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10598732 - GAIL: 3663

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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>( Not for submission under 37 CFR 1.99) | Application Number     |                          | 10598732   |  |
|   | Filing Date            |                          | 2006-09-08 |  |
|   | First Named Inventor   | WELKER, Ken              |            |  |
|   | Art Unit               | 3663                     |            |  |
|   | Examiner Name          | BREIER, Krystine E.      |            |  |
|   | Attorney Docket Number | 14-0248-PCT-US (WGEC108) |            |  |

| U.S.PATENTS       |         |               |                        |            |   |  |
|-------------------|---------|---------------|------------------------|------------|---|--|
| Examiner Initial* | Cite No | Patent Number | Kind Code <sup>1</sup> | Issue Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear |
|                   | 1       | 6285956       | B1                     | 2001-09-04 | Bennett, et al.                                 |  |
|                   | 2       | 6839302       | B2                     | 2005-01-04 | Austad, et al.                                  |  |
|                   | 3       | 6606958       | B1                     | 2003-08-19 | Bouyoucos                                       |  |
|                   | 4       | 4845686       |                        | 1989-07-04 | Brac  |  |
|                   | 5       | 4323989       |                        | 1982-04-06 | Huckabee, et al.                                |  |
|                   | 6       | 4134098       |                        | 1979-01-09 | Ruehle  |  |
|                   | 7       | 3730483       |                        | 1973-05-01 | Newell  |  |
|                   | 8       | 6504792       | B2                     | 2003-01-07 | Barker  |  |

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|  |    |         |  |            |                     |  |
|--|----|---------|--|------------|---------------------|--|
|  | 9  | 6091670 |  | 2000-07-18 | Oliver, et al.      |  |
|  | 10 | 5144588 |  | 1992-09-01 | Johnston, et al.    |  |
|  | 11 | 4890568 |  | 1990-01-02 | Dolengowski         |  |
|  | 12 | 4729333 |  | 1988-03-08 | Kirby, et al.       |  |
|  | 13 | 4719987 |  | 1988-01-19 | George, Jr., et al. |  |
|  | 14 | 4716553 |  | 1987-12-29 | Dragsund, et al.    |  |

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#### U.S.PATENT APPLICATION PUBLICATIONS

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|-------------------|---------|--------------------|------------------------|------------------|---|--|
|                   | 1       | 20090175124        | A1                     | 2009-07-09       | Sorli   |  |
|                   | 2       | 20080279042        | A1                     | 2008-11-13       | Storteig, et al.                                |  |
|                   | 3       | 20070019504        | A1                     | 2007-01-25       | Howlid, et al.                                  |  |

|  |                        |                          |            |                      |
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|  |   |             |    |            |                 |  |
|--|---|-------------|----|------------|-----------------|--|
|  | 4 | 20050180263 | A1 | 2005-08-18 | Lambert, et al. |  |
|  | 5 | 20020174817 | A1 | 2002-11-28 | Semb            |  |
|  | 6 | 20030208320 | A1 | 2003-11-06 | Zajac           |  |

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#### FOREIGN PATENT DOCUMENTS

| Examiner Initial* | Cite No | Foreign Document Number <sup>3</sup> | Country Code <sup>2</sup> | Kind Code <sup>4</sup> | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T <sup>5</sup>           |
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|---|--|--------------------------|
|                   | 1       | 2400662                              | GB                        | A                      | 2004-10-20       | WesternGeco                                     |  | <input type="checkbox"/> |
|                   | 2       | 2390589                              | GB                        | A                      | 2004-01-14       | Petroleum Geo                                   |  | <input type="checkbox"/> |
|                   | 3       | 2002-103393                          | WO                        | A2                     | 2002-12-27       | WesternGeco                                     |  | <input type="checkbox"/> |
|                   | 4       | 2002-047968                          | WO                        | A1                     | 2002-06-20       | WesternGeco, et al.                             |  | <input type="checkbox"/> |
|                   | 5       | 2001-084186                          | WO                        | A1                     | 2001-11-08       | Geco AS, et al.                                 |  | <input type="checkbox"/> |
|                   | 6       | 2001-061380                          | WO                        | A2                     | 2001-08-23       | Geco AS, et al.                                 |  | <input type="checkbox"/> |

|  |                        |                          |            |                      |
|--|------------------------|--------------------------|------------|----------------------|
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|  |    |             |    |    |            |                       |  |                          |
|--|----|-------------|----|----|------------|-----------------------|--|--------------------------|
|  | 7  | 2001-016623 | WO | A1 | 2001-03-08 | Petroleum Geo, et al. |  | <input type="checkbox"/> |
|  | 8  | 2000-020895 | WO | A1 | 2000-04-13 | Geco AS, et al.       |  | <input type="checkbox"/> |
|  | 9  | 2000-020892 | WO | A1 | 2000-04-13 | Honeywell             |  | <input type="checkbox"/> |
|  | 10 | 2320706     | GB | A  | 1998-07-01 | Western Atlas         |  | <input type="checkbox"/> |
|  | 11 | 0 168 959   | EP | B1 | 1988-08-17 | Texas Instruments     |  | <input type="checkbox"/> |
|  | 12 | 2414804     | GB | A  | 2005-12-07 | WesternGeco           |  | <input type="checkbox"/> |
|  | 13 | 2004-092771 | WO | A2 | 2004-10-28 | WesternGeco, et al.   |  | <input type="checkbox"/> |

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|--------------------|---------|---|--------------------------|
|                    | 1       | Response to Office Action (2010 June 3) and Office Action (2010 Mar 3); US Serial No. 12/267,316 (US 2009-0175124 A1 - Sorli).  | <input type="checkbox"/> |
|                    | 2       | Response to Office Action (2010 July 14) and Office Action (2010 April 15); US Serial No. 12/175,939 (US 2008-0279042 A1 - Storteig, et al).  | <input type="checkbox"/> |

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|   |   |                          |
|---|---|--------------------------|
| 3 | RCE Amendment (2010 September 15) and Ex Parte Quayle Office Action (2010 September 15);<br>US Serial No. 10/552,795 (US 2007-0019504 A1 - Howlid, et al.). | <input type="checkbox"/> |
| 4 | Ashton et al.; "3D Seismic Surveys"; Oilfield Review; 1994 April.   | <input type="checkbox"/> |
| 5 | UK Search Report for GB 0511248.7; 2005 September 8   | <input type="checkbox"/> |
| 6 | Christie; "Raising the Standards of Seismic Data Quality" Oilfield Review; Summer 2001.   | <input type="checkbox"/> |
| 7 | "Western and Geco Merge, Streamers that can be steered"; WorldOil.com; 221(7); 2000 July  | <input type="checkbox"/> |

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| Examiner Signature | /Krystine Saito/ | Date Considered | 03/25/2011 |
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